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ABSTRACT

Optimization of the efficiency of a compact cooling system for air cooling of at least two different heat exchange fluids is obtained in a construction including three heat exchangers (10), (12), (14) arranged in a housing-like shape with an open center. A radial fan (44) is located within the housing and is rotatable about an axis (42). A front panel (36) having an air inlet (38) on the axis (44) abuts a corresponding one of the opposed sides (26), (62) of each of the heat exchangers while a rear panel abuts the other of the opposed sides (64) of each of the heat exchangers (10), (12), (14) and journals the fan (44) for rotation about the axis (44). The assembly is characterized by the fact that the core width " $W_c$ " of one of the heat exchangers (10) is greater than that of another of the heat exchangers (14) such that one or both of the opposed sides (62), (64) of the one heat exchanger projects forwardly and/or rearwardly of a corresponding one or both of the opposed sides (26), (64) of the heat exchanger (14).